



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY  
AFFAIRS (PERA)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599

[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

Kawneer Company, Inc.  
555 Guthridge Court  
Norcross, Georgia 30092

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Series "IR-631" Aluminum Storefront System - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. 1482, titled "IR 631-Large Missile Impact Store Front System", sheets 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P. A., dated 06/26/06 with revision B1 dated 06/21/11, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

### MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 11-0701.01 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



NOA No. 11-0908.10  
Expiration Date: November 23, 2016  
Approval Date: October 20, 2011  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **1482**, titled "IR 631-Large Missile Impact Store Front System" Sheets 1 through 3 of 3, dated 06/26/06 with revision B1 dated 06/21/11, prepared by W.W. Schaefer Engineering & Consulting P.A., signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a series IR 631 aluminum window wall system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0049-0112-06**, specimens **7** and **7a**, dated 02/16/06, signed and sealed by Vinu J. Abraham, P.E.  
*(Submitted under previous NOA #06-0718.01)*
2. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of a series IR 631 aluminum window wall system, prepared by Hurricane Test Laboratory, LLC, Test Report No. **HTL-0049-0605-05**, specimens **7b** and **7c**, dated 05/13/05, signed and sealed by Vinu J. Abraham, P.E.  
*(Submitted under previous NOA #06-0718.01)*

**C. CALCULATIONS:**

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by W.W. Schaefer Engineering & Consulting P.A., dated 11/11/05, updated on 06/21/11 and 09/01/11, signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).



Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-0908.10

Expiration Date: November 23, 2016

Approval Date: October 20, 2011

**Kawneer Company, Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **08-0520.08** issued to **Solutia, Inc.** for their "**Vanceva Composites Glass Interlayer**" dated 07/17/08, expiring on 12/11/13.

**F. STATEMENTS**

1. Statement letter of conformance, dated September 01, 2011, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated September 01, 2011, signed and sealed by Warren W. Schaefer, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **11-0701.01**, issued to Kawneer Company, Inc. for their Series "IR-631" Aluminum Storefront System – L.M.I., approved on 08/18/11 and expiring on 11/23/16.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 11-0908.10

Expiration Date: November 23, 2016

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# **GENERAL NOTES:**

1. THESE STORE FRONT SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT STORE FRONT SYSTEMS.
5. THESE STORE FRONT SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING STORE FRONT FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.

## **CORNER & FRAME END CONSTRUCTION:**

**FRAME CORNER:** THE VERTICAL FRAME MEMBER RAN THROUGH WHILE THE HORIZONTAL FRAME MEMBER END WAS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER USING THREE (3) #12 X 1 3/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.

**HORIZONTAL (MID-RAIL) END:** THE VERTICAL FRAME MEMBER RAN THROUGH WHILE THE HORIZONTAL FRAME MEMBER END WAS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER USING TWO (2) #12 X 1 3/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.

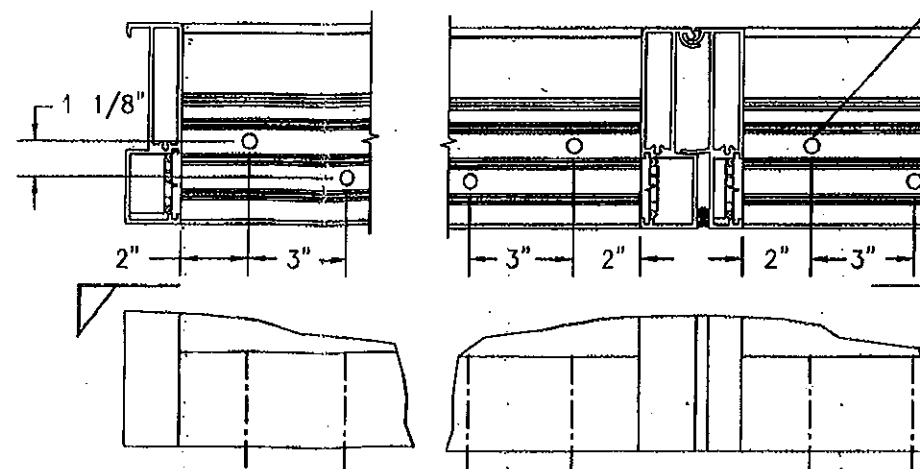
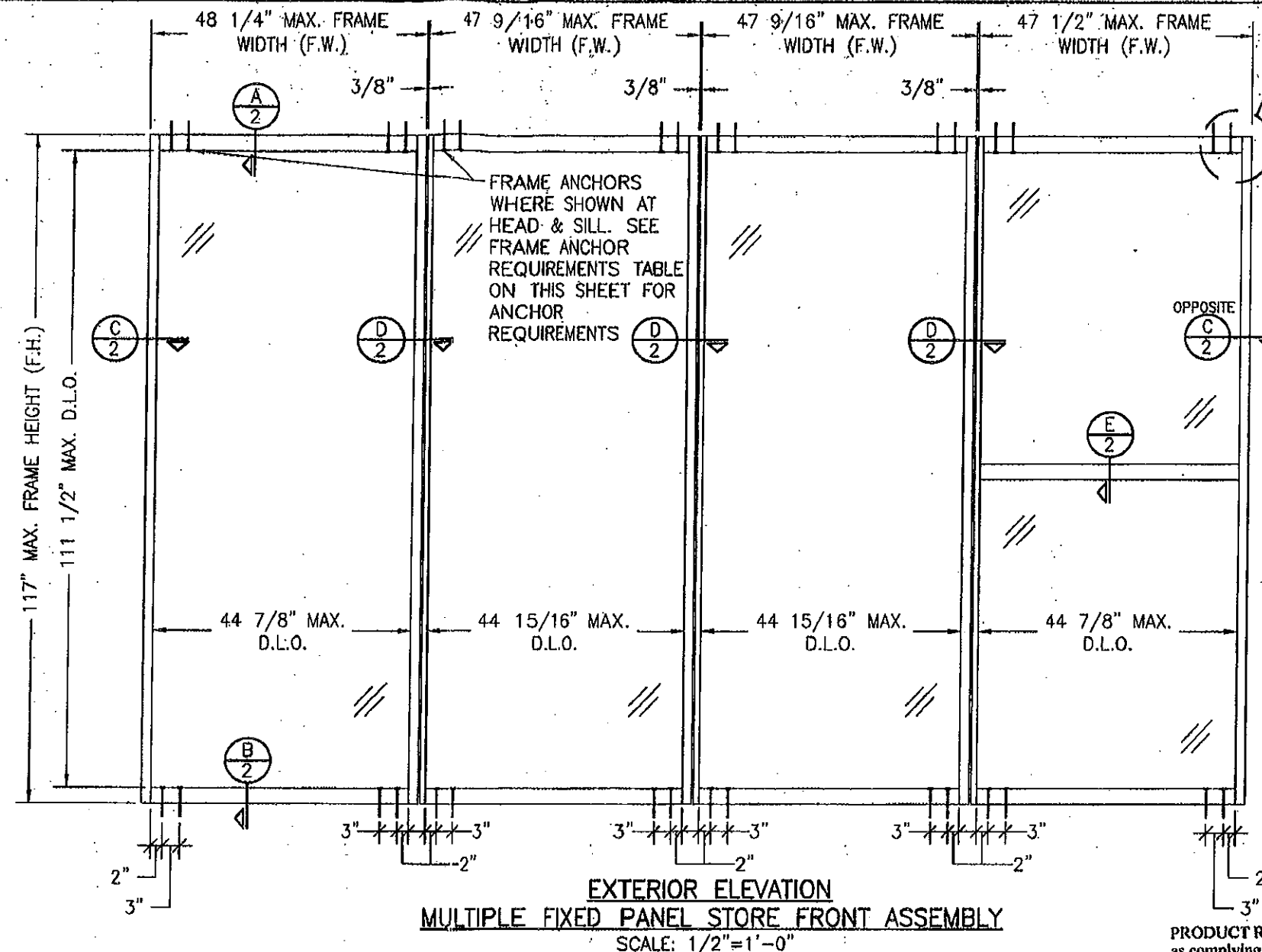
## **ALLOWABLE DESIGN PRESSURE**

+/-95 PSF

## **FRAME ANCHOR REQUIREMENTS TABLE**

FRAME & SILL ANCHORS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 1/4" THICK A36 STEEL	(1) 3/8" H.H. MACHINE SCREW	FULL	3/4"
MIN. 3000 P.S.I. CONCRETE	(2) 3/8" WEDGE ANCHOR	2 1/2"	3"

(1) MACHINE SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL  
 (2) 3/8" WEDGE ANCHORS SHALL BE POWERS RAWL POWERBOLT, RAMSET RED HEAD DYNABOLT OR HILTI KWIK-BOLT 3 (STEEL OR S.S.)



**MULLION END CONNECTION DETAIL**

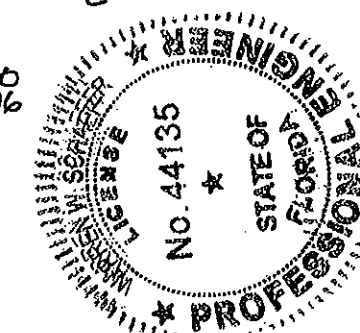
PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No 11-0701.01  
 Expiration Date Nov. 23, 2016

By *Warren W. Schaefer*  
 Miami/Dade Product Control

FRAME ANCHORS PER ELEVATION & FRAME REQUIREMENTS TABLE.

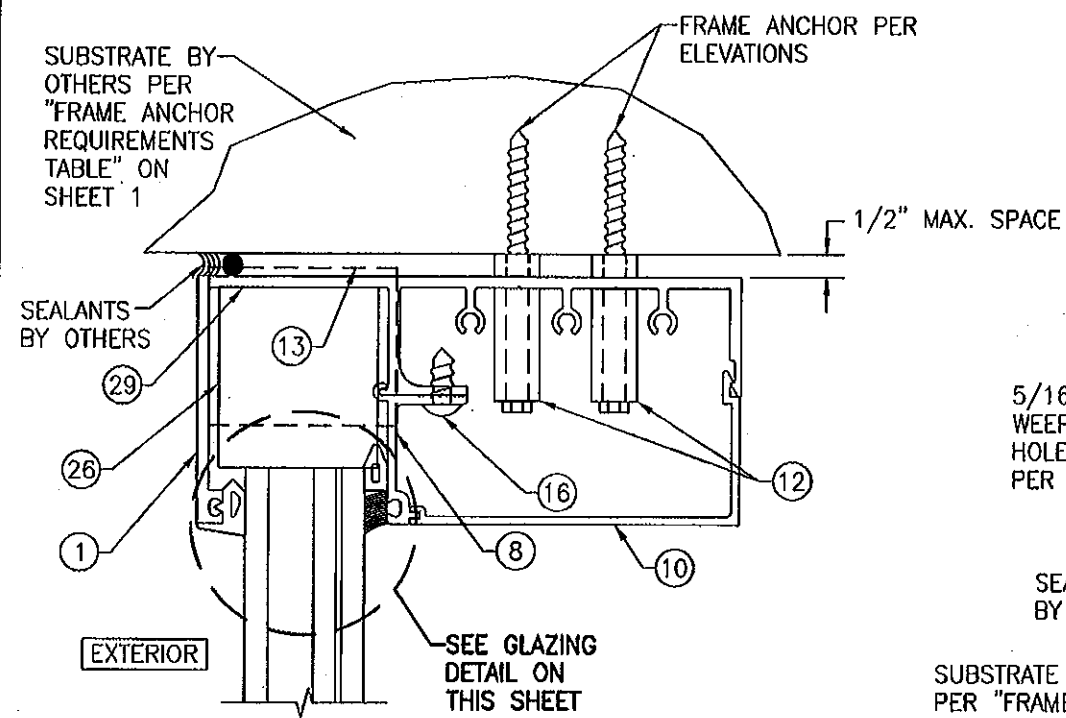
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By *Warren W. Schaefer*  
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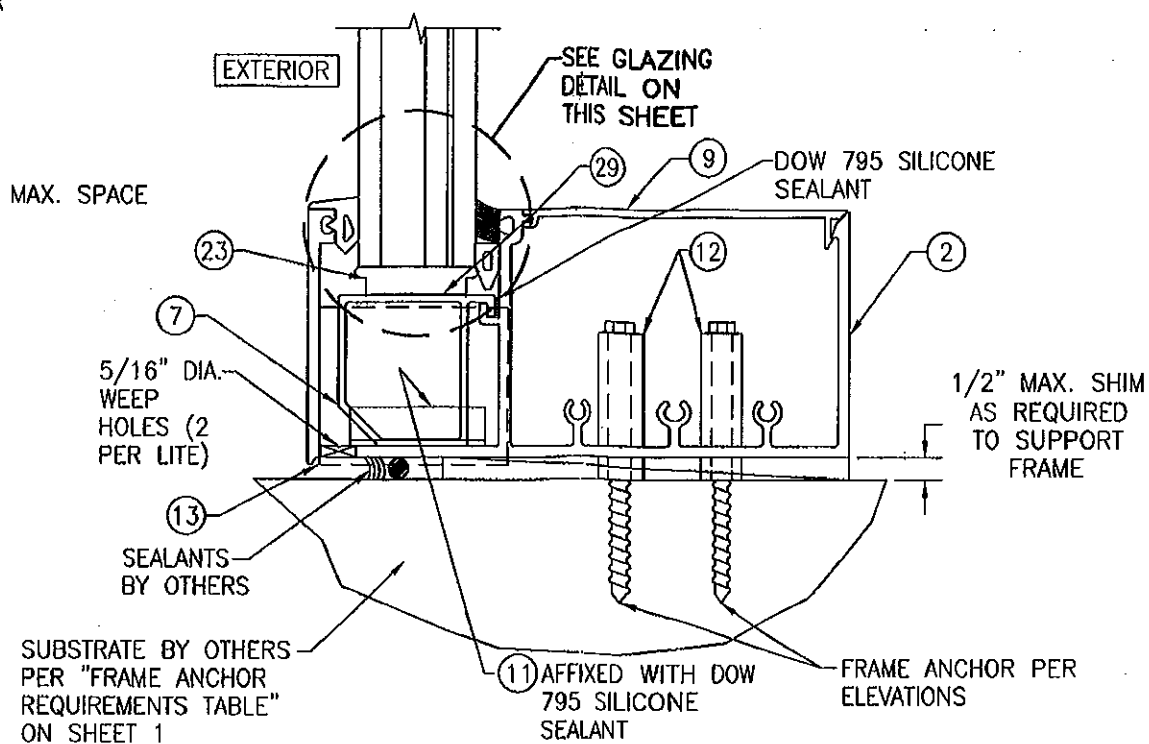


SEE CORNER CONSTRUCTION DESCRIPTIONS ON THIS SHEET.

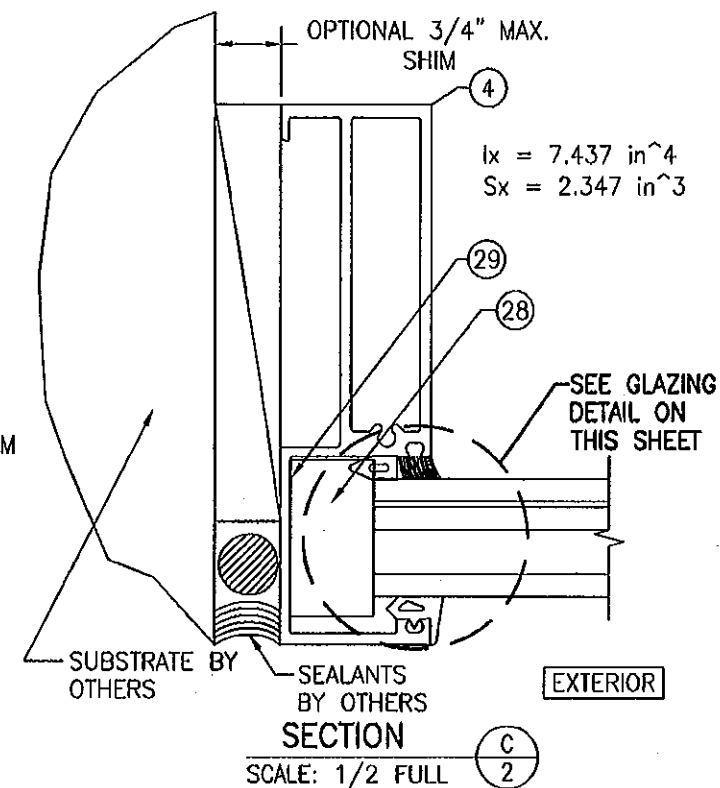
DRAWN BY: W.R.M.		CHECKED BY: W.H.S.	
PLOT: 1-24		DATE: 08/26/08	
DATE	BY	REVISION	DESCRIPTION
08/19/08	W.H.S.	A1	UPDATE GENERAL NOTES
08/21/11	W.H.S.	B1	UPDATE TO CURRENT STANDARDS
<p><b>DRAWING TITLE</b>          IR 631-LARGE MISSILE IMPACT STORE FRONT SYSTEM</p> <p><b>MANUFACTURER</b>          KAWNEER COMPANY, INC.          555 GUTHRIE COURT          NORCROSS, GA 30092          770-449-5555</p> <p><b>CONSULTANTS</b>          W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A. (CA 6809)          7480 150TH COURT NORTH          PALM BEACH GARDENS, FL 33418          PHONE: 561-744-3424</p> <p><b>CERTIFICATION</b>          AUG 09 2011          WARREN W. SCHAEFER, P.E.          P.E. NO. 44135</p> <p><b>DRAWING NO.</b>          1482</p> <p><b>SHEET NO.</b>          1 OF 3</p>			



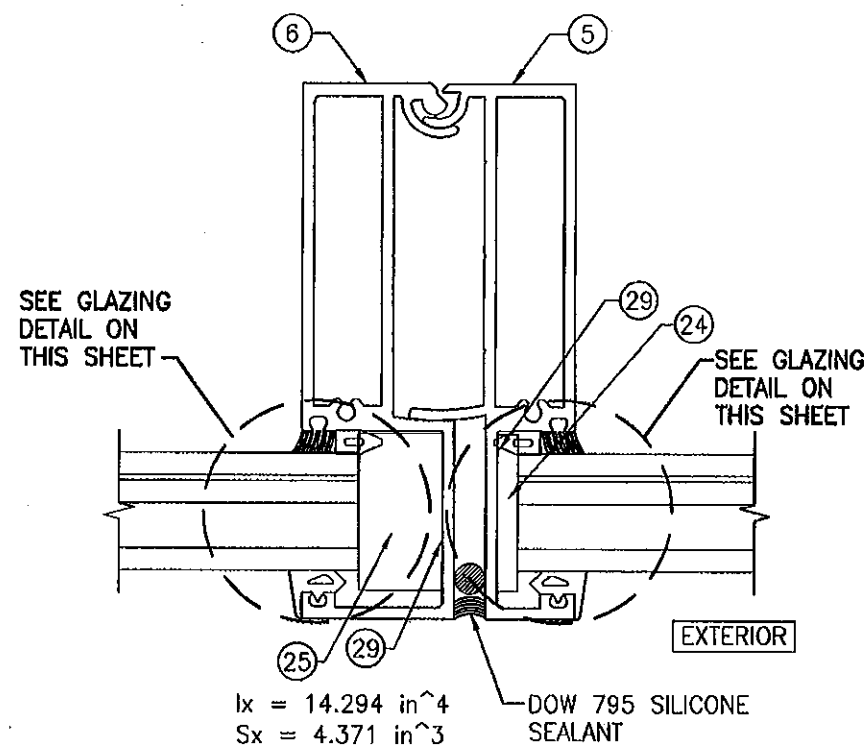
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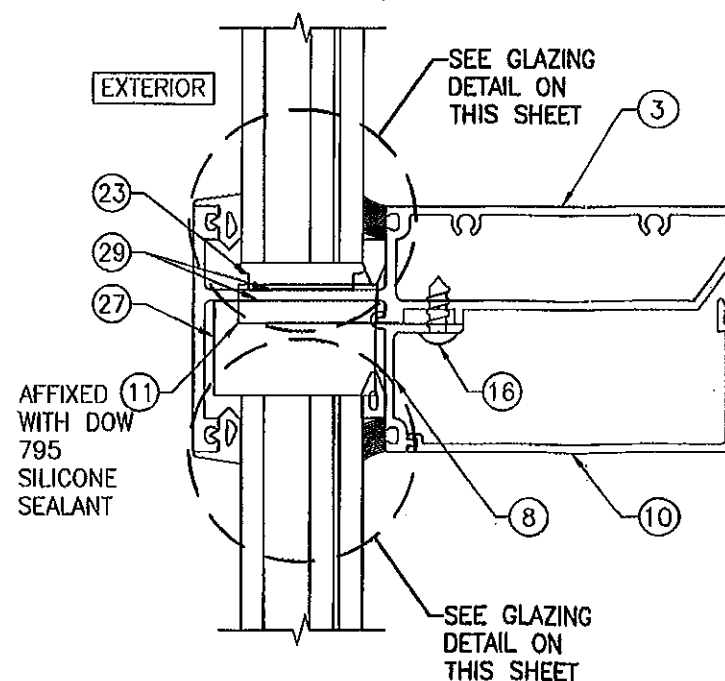
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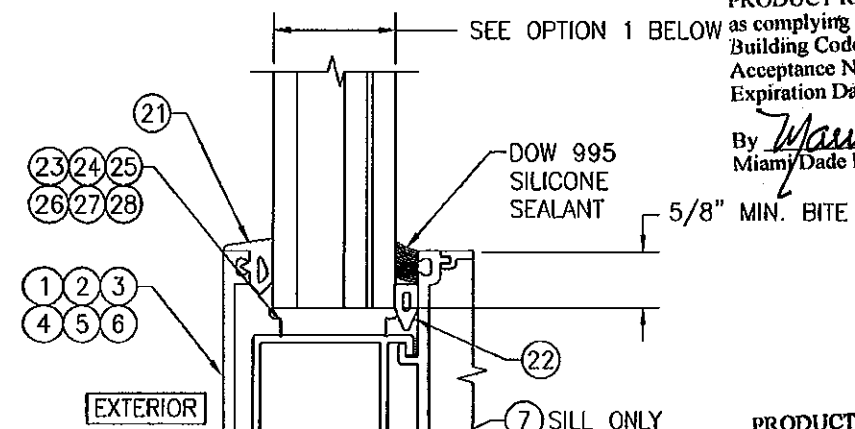
SECTION C  
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SECTION D  
SCALE: 1/2 FULL



SECTION E  
SCALE: 1/2 FULL



TYP. GLAZING DETAIL  
SCALE: 1/2 FULL

OPTION 1, 1 5/16" THICK LAMINATED I.G. SOLUTIA VANCEVA GLASS WITH 1/4" THICK HEAT STRENGTHENED OR TEMPERED OUTER PANE, 1/2" AIR SPACER, AND 9/16" THICK LAMINATED INNER GLASS (1/4" H.S./0.07 VANCEVA/1/4" H.S.)

NOTE: WHEN SILL HEIGHT OF WINDOW EXCEEDS 30 FT. ABOVE GRADE, THE EXTERIOR PANE OF I.G. GLASS MUST BE TEMPERED OR AN APPROVED SMALL MISSILE IMPACT SYSTEM MUST BE USED.

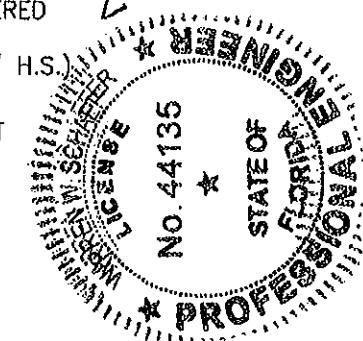
NOTE: THE SINGLE PANE OF THE IG GLASS SHALL BE TEMPERED WHEN REQUIRED TO CONFORM WITH SECTION 2406.3 OF THE FLORIDA BUILDING CODE FOR USE OF GLASS IN HAZARDOUS LOCATIONS.

PRODUCT REVISED as complying with the Florida Building Code  
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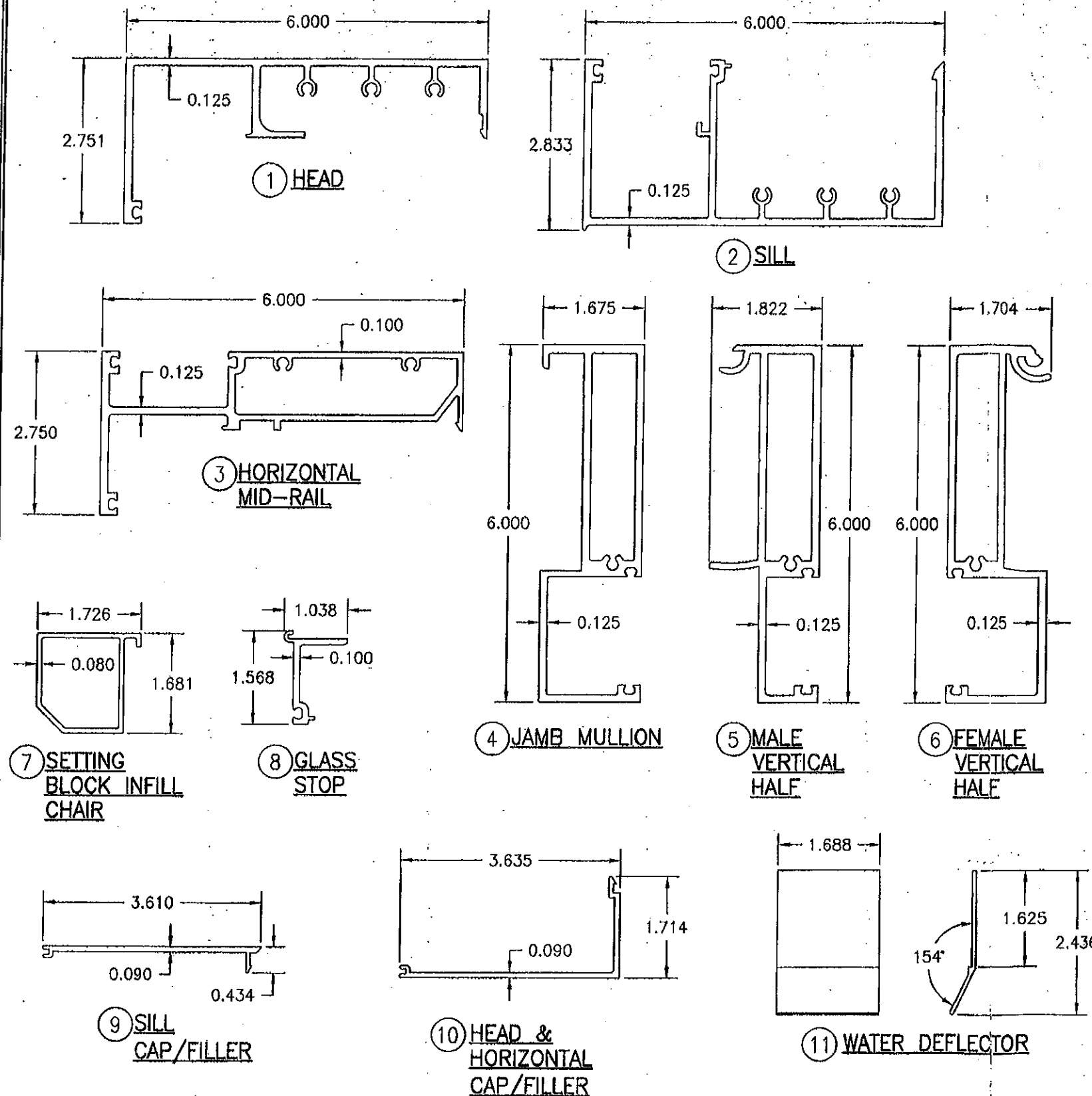
By *Warren Schaefer*  
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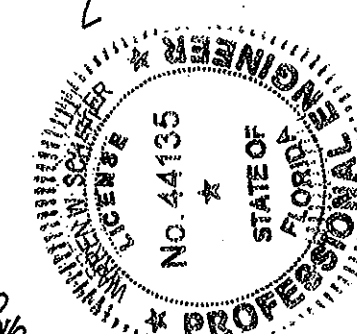
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 08/26/08
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: IR 631-LARGE MISSILE IMPACT STORE FRONT SYSTEM	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
CERTIFICATION	 AUG 09 2011 WARREN SCHAEFER P.E. NO. 44135
DRAWING NO. 1482	REV. B
SHEET NO. 2	OF 3



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	831-492	HEAD RAIL	6063-T6 ALUMINUM
2	831-496	SILL RAIL	6063-T6 ALUMINUM
3	831-495	HORIZONTAL MID-RAIL	6063-T6 ALUMINUM
4	831-499	JAMB MULLION	6063-T6 ALUMINUM
5	831-510	MALE VERTICAL HALF	6063-T6 ALUMINUM
6	831-511	FEMALE VERTICAL HALF	6063-T6 ALUMINUM
7	831-498	SETTING BLOCK INFILL CHAIR	6063-T6 ALUMINUM
8	831-493	GLASS STOP	6063-T6 ALUMINUM
9	831-497	SILL CAP/FILLER	6063-T6 ALUMINUM
10	831-494	HEAD & HORIZONTAL CAP/FILLER	6063-T6 ALUMINUM
11	831-656	WATER DEFLECTOR	ASTM A53F LOW-CARBON STEEL
12	-	3/8" X 1 1/4" SCH. 80 PIPE SLEEVE	ASTM A53F LOW-CARBON STEEL
13	575-038	END CAP	6063-T6 ALUMINUM
MISC. FASTENERS			
16	128-100	1/4" X 5/8" SELF TAPPING SCREW	3" FROM EACH END & ONE (1) AT MID-SPAN
SEALS AND SEALANTS			
21	027-850	FIXED GASKET	TREMCO; SHORE "A" 60 DUROMETER EPDM
22	027-575	WEDGE GASKET (WET GLAZING ONLY)	TREMCO; SHORE "A" 60 DUROMETER EPDM
23	831-578	SETTING BLOCK	KRP; SHORE "A" 85 DUROMETER EPDM
24	831-542	SIDE BLOCK; SHALLOW POCKET	KRP; SHORE "A" 85 DUROMETER EPDM
25	831-579	SIDE BLOCK; DEEP POCKET	KRP; SHORE "A" 85 DUROMETER EPDM
26	831-658	"W" BLOCK; HEAD	KRP; SHORE "A" 85 DUROMETER EPDM
27	831-657	"W" BLOCK; HORIZONTAL	KRP; SHORE "A" 85 DUROMETER EPDM
28	422-434	"W" BLOCK; JAMB	KRP; SHORE "A" 85 DUROMETER EPDM
29	027-895	DOUBLE SIDED TAPE	3M; ACRYLIC FOAM

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DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 06/28/08	
DATE	BY	W.S.	
06/18/08			
REVISION DESCRIPTION	NO.	DATE	
1	1		
DRAWING TITLE: IR 631-LARGE MISSILE IMPACT STORE FRONT SYSTEM			
CONSULTANTS:		MANUFACTURER:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		KAWNEER COMPANY, INC.	
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DRAWING NO. 1482		REV. B	
SHEET NO. 3		OF 3	